

Special Issue

Microporous Zeolites and Related Nanoporous Materials: Synthesis, Characterization and Applications in Catalysis

Message from the Guest Editor

Microporous zeolites and nanoporous materials are important from the academic and industrial research point of view. These inorganic materials have found application as catalysts in several industrial processes in the field of oil refinery, petro-chemical reactions, fine chemicals, drug discovery and pharmaceutical synthesis, exhaust emission control for stationary and mobile engines, and industrial waste water treatment. Furthermore, the possibility to tune the amount and strength of Brønsted and Lewis acid sites and the crystal size and to introduce modifications with transition and noble metals are the key to the successful design of efficient, highly selectivity, and stable catalysts. The Special Issue includes following topics: Novel zeolite and nanoporous materials synthesis; Advanced technology for catalyst preparation; Design of catalytic active sites; Transition and noble metal modifications; Nanoporous materials crystal engineering; Physico-chemical catalyst characterization; Catalytic applications: Petro-chemicals, Environmental catalysis; Biodiesel, Biofuels from renewables; Fuels and Chemicals from biomass.

Guest Editor

Dr. Narendra Kumar

Faculty of Science and Engineering, Laboratory of Industrial Chemistry and Reaction Engineering, Åbo Akademi University, Henriksgatan 2, FI-20500 Turku, Finland

Deadline for manuscript submissions

closed (31 December 2020)



Catalysts

an Open Access Journal
by MDPI

Impact Factor 4.5
CiteScore 8.3



mdpi.com/si/21994

Catalysts
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
catalysts@mdpi.com

[mdpi.com/journal/
catalysts](https://mdpi.com/journal/catalysts)





Catalysts

an Open Access Journal
by MDPI

Impact Factor 4.5
CiteScore 8.3



[mdpi.com/journal/
catalysts](https://mdpi.com/journal/catalysts)



About the Journal

Message from the Editor-in-Chief

Editor-in-Chief

Prof. Dr. Keith Hohn
Carl R. Ice College of Engineering, Kansas State University, Manhattan,
KS, USA

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), Inspec, Ei Compendex, CAPlus / SciFinder, CAB Abstracts, and other databases.

Journal Rank:

JCR - Q2 (Chemistry, Physical) / CiteScore - Q1 (General Environmental Science)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 13.3 days after submission; acceptance to publication is undertaken in 4.6 days (median values for papers published in this journal in the first half of 2026).